

.NET Developer Roadmap 2024.

The roadmap is structured as follows:

- 1. C#**
 - Basics of C# 6-11
 - NET 7 and NET 8
 - NET Framework 4.8
 - Nullable C#
 - NuGet
- 2. General Development skills**
 - GA
 - Data structures & algorithms
 - Class code and refactoring
 - SOLID, YAGNI, DRY, KISS principles
 - Design Patterns
 - Software architectures
 - Architecture patterns
- 3. ASP.NET Core**
 - Web basics
 - MVC
 - APIs
 - Web APIs
 - Middleware
 - Filters & Attributes
 - Authentication & Authorization
- 4. Client-Side .NET**
 - Razor
 - Blazor
 - .NET MAUI
 - WPF
- 5. Databases**
 - Database design
 - SQL Syntax
 - Stored procedures
 - Relational
 - NoSQL
- 6. ORM**
 - Learn basics
 - Code first & migrations
 - Change tracker API
 - Lazy loading
 - Entity Framework Core
 - Support
 - LINQ
- 7. Caching**
 - Memory Cache
 - Redis
 - Application-level
- 8. Logging**
 - Microsoft.Extensions.Logging
 - Serilog
 - NLog
- 9. Communication**
 - Real-time
 - Synchronous
 - Asynchronous
- 10. Background tasks**
 - Native Background Services
 - Hangfire
 - Quartz
- 11. Testing**
 - Unit Testing
 - Integration Testing
 - Snapshot Testing
 - End-to-End Testing
 - Performance Testing
- 12. Observability**
 - Monitoring
 - Tracing
 - Jaeger
 - OpenTelemetry
- 13. Containerization**
 - Docker
 - Azure Container Registry
 - Kubernetes
 - Helm
- 14. Cloud**
 - Azure
 - AWS
 - Google Cloud
- 15. Continuous Integration & Delivery**
 - CI/CD Concepts
 - Github Actions
 - Github CI
 - Azure Pipelines
 - Travis CI
 - Jenkins
- 16. .NET Libraries**
 - Mediatr
 - Polly
 - FluentValidation
 - BenchmarkDotNet
 - Refl
 - VAMP
 - Swashbuckle

Legend:

- Junior
- Midior
- Senior

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